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SEQUENCE LISTING

<110> EPICYTE PHARMACEUTICALS, INC.
HIATT, ANDREW C.
HEIN, MICH B.

<120> IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS

<130> 068904-0501

<140> 09/563,222
<141> 2000-05-02

<150> PCT/US01/14349
<151> 2001-05-02

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<151> 2000-05-02

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<170> PatentIn Ver. 2.1

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 Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser
 1 5 10 15
 Leu Thr Ile Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
 20 25 30

<210> 122
 <211> 10
 <212> PRT
 <213> Mus musculus

<400> 122
 Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 123
 <211> 23
 <212> PRT
 <213> Mus musculus

<400> 123
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys
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<210> 124
 <211> 15
 <212> PRT
 <213> Mus musculus

<400> 124
 Trp Tyr Gln Gln Lys Pro Gly Gly Ser Pro Lys Leu Leu Ile Tyr
 1 5 10 15

<210> 125
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 125
 Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser
 1 5 10 15

Leu Thr Ile Ser Gln Leu Glu Gln Glu Asp Ile Ala Thr Tyr Phe Cys
 20 25 30

<210> 126
 <211> 23
 <212> PRT
 <213> Mus musculus

<400> 126
 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
 1 5 10 15

Glu Lys Val Thr Met Thr Cys
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<210> 127
 <211> 15
 <212> PRT
 <213> Mus musculus

<400> 127
 Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
 1 5 10 15

<210> 128
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 128
 Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser
 1 5 10 15

Leu Thr Ile Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
 20 25 30

<210> 129
 <211> 22
 <212> PRT
 <213> Mus musculus

<400> 129
 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
 1 5 10 15

Thr Val Thr Leu Thr Cys
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<210> 130
 <211> 15
 <212> PRT
 <213> Mus musculus

<400> 130

Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly Leu Ile Gly
 1 5 10 15

<210> 131

<211> 32

<212> PRT

<213> Mus musculus

<400> 131

Gly Val Pro Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala
 1 5 10 15

Leu Thr Ile Thr Gly Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys
 20 25 30

<210> 132

<211> 11

<212> PRT

<213> Mus musculus

<400> 132

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 1 5 10

<210> 133

<211> 30

<212> PRT

<213> Homo sapiens

<400> 133

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
 20 25 30

<210> 134

<211> 14

<212> PRT

<213> Homo sapiens

<400> 134

Trp Val Arg Gly Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
 1 5 10

<210> 135

<211> 32

<212> PRT

<213> Homo sapiens

<400> 135

Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu
 1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 136

<211> 11

<212> PRT

<213> Homo sapiens

<400> 136

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 137

<211> 30

<212> PRT

<213> Homo sapiens

<400> 137

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser
 20 25 30

<210> 138

<211> 14

<212> PRT

<213> Homo sapiens

<400> 138

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 139

<211> 32

<212> PRT

<213> Homo sapiens

<400> 139

Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
 1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 140

<211> 30

<212> PRT

<213> Homo sapiens

<400> 140

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Cys Gly Phe Thr Phe Ser
 20 25 30

<210> 141

<211> 14

<212> PRT

<213> Homo sapiens

<400> 141

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 1 5 10

<210> 142

<211> 32

<212> PRT

<213> Homo sapiens

<400> 142

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 143

<211> 30

<212> PRT

<213> Mus musculus

<400> 143

Glu Val Gln Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Asp Ser Ile Thr
 20 25 30

<210> 144

<211> 14

<212> PRT

<213> Mus musculus

<400> 144

Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp Met Gly
 1 5 10

<210> 145

<211> 32

<212> PRT

<213> Mus musculus

<400> 145

Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Tyr Phe Leu Gln
1 5 10 15

Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
20 25 30

<210> 146

<211> 11

<212> PRT

<213> Mus musculus

<400> 146

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
1 5 10

<210> 147

<211> 30

<212> PRT

<213> Mus musculus

<400> 147

Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr
20 25 30

<210> 148

<211> 14

<212> PRT

<213> Mus musculus

<400> 148

Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly
1 5 10

<210> 149

<211> 32

<212> PRT

<213> Mus musculus

<400> 149

Arg Leu Ser Ile Ser Lys Asp Gln Ser Lys Ser Gln Val Phe Leu Lys
1 5 10 15

Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> 150

<211> 11

<212> PRT

<213> Mus musculus

<400> 150

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
1 5 10

<210> 151

<211> 30

<212> PRT

<213> Mus musculus

<400> 151

Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
20 25 30

<210> 152

<211> 14

<212> PRT

<213> Mus musculus

<400> 152

Trp Val Lys Gln Ser Pro Gly Lys Ser Leu Glu Trp Ile Gly
1 5 10

<210> 153

<211> 32

<212> PRT

<213> Mus musculus

<400> 153

Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
1 5 10 15

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 154

<211> 30

<212> PRT

<213> Mus musculus

<400> 154

Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Pro Thr
20 25 30

<210> 155
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 155
 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 156
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 156
 Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
 1 5 10 15

Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 157
 <211> 11
 <212> PRT
 <213> Mus musculus

<400> 157
 Trp Val Gln Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

<210> 158
 <211> 30
 <212> PRT
 <213> Mus musculus

<400> 158
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys
 20 25 30

<210> 159
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 159
 Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 160
 <211> 32

<212> PRT

<213> Mus musculus

<400> 160

Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr Leu Gln
 1 5 10 15

Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 161

<211> 11

<212> PRT

<213> Mus musculus

<400> 161

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 1 5 10

<210> 162

<211> 30

<212> PRT

<213> Mus musculus

<400> 162

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 163

<211> 14

<212> PRT

<213> Mus musculus

<400> 163

Trp Val Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Ile Ala
 1 5 10

<210> 164

<211> 32

<212> PRT

<213> Mus musculus

<400> 164

Arg Phe Thr Val Ser Arg Asp Thr Ser Gln Ser Ile Ile Tyr Leu Gln
 1 5 10 15

Met Asn Ala Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Arg
 20 25 30

<210> 165
 <211> 11
 <212> PRT
 <213> Mus musculus

<400> 165
 Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

<210> 166
 <211> 30
 <212> PRT
 <213> Mus musculus

<400> 166
 Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser
 20 25 30

<210> 167
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 167
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 168
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 168
 Lys Phe Ile Ile Ser Arg Asp Gln Ala Lys Gln Thr Leu Tyr Leu Gln
 1 5 10 15

Met Ser Lys Val Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
 20 25 30

<210> 169
 <211> 11
 <212> PRT
 <213> Mus musculus

<400> 169
 Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

<210> 170
 <211> 30

<212> PRT

<213> Mus musculus

<400> 170

Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 171

<211> 14

<212> PRT

<213> Mus musculus

<400> 171

Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val Ala
 1 5 10

<210> 172

<211> 32

<212> PRT

<213> Mus musculus

<400> 172

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ser Val Tyr Leu Gln
 1 5 10 15

Met Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr Tyr Cys Thr Thr
 20 25 30

<210> 173

<211> 30

<212> PRT

<213> Mus musculus

<400> 173

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 174

<211> 14

<212> PRT

<213> Mus musculus

<400> 174

Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala
 1 5 10

<210> 175
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 175
 Arg Phe Thr Ile Ser Arg Asp Gln Ala Lys Gln Thr Leu Tyr Leu Gln
 1 5 10 15
 Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
 20 25 30

<210> 176
 <211> 30
 <212> PRT
 <213> Mus musculus

<400> 176
 Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ala Gly Ser
 1 5 10 15
 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
 20 25 30

<210> 177
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 177
 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly
 1 5 10

<210> 178
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 178
 Lys Thr Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln
 1 5 10 15
 Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg
 20 25 30

<210> 179
 <211> 11
 <212> PRT
 <213> Mus musculus

<400> 179
 Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 1 5 10

<210> 180
 <211> 31
 <212> PRT
 <213> Mus musculus

<400> 180
 Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly
 1 5 10 15
 Gly Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Thr Phe Ser
 20 25 30

<210> 181
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 181
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
 1 5 10

<210> 182
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 182
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Ser Thr Leu Tyr Leu Gln
 1 5 10 15
 Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
 20 25 30